

## HERMETICALLY SEALED ELECTRONICS ARRANGEMENT AND APPROACH

### ABSTRACT

A hermetic sealing approach involves welding an Aluminum cover onto a low-cost Aluminum housing. According to an example embodiment of the present invention, a metal housing having a base and sidewalls extending upward therefrom is adapted to receive and couple to an HDD arrangement. The metal housing is formed using material and processing (e.g., cold formed or die cast Aluminum) that are relatively inexpensive. A feedthrough arrangement including a plurality of communication pins extends through an opening in the base and is coupled thereto, with the communication pins adapted to pass signals between the inside and the outside of the metal housing. A metal cover is welded to an upper portion of the sidewalls and, with the feedthrough arrangement, hermetically seals the metal housing.